

AABC Commissioning Group

AIA Provider Number 50111116



# State of NFPA 3; Standard for Commissioning of Fire Protection and Life Safety Systems

Course Number: CXENERGY1711

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*National Fire Protection Association*

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IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.®

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

This course is registered with **AIA**



# Course Description

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What is the current state of fire protection and life safety commissioning? Previously developed as a Recommended Practice, NFPA 3; Standard for Commissioning of Fire Protection and Life Safety Systems is now a Standard that provides a set of requirements to use as part of the total building commissioning or as stand-alone commissioning for individual fire protection and life safety systems. We will discuss why NFPA 3 was initially developed, how NFPA 3 became a standard, who is involved in fire protection and life safety system commissioning, and what are some common misconceptions about fire protection and life safety system commissioning.



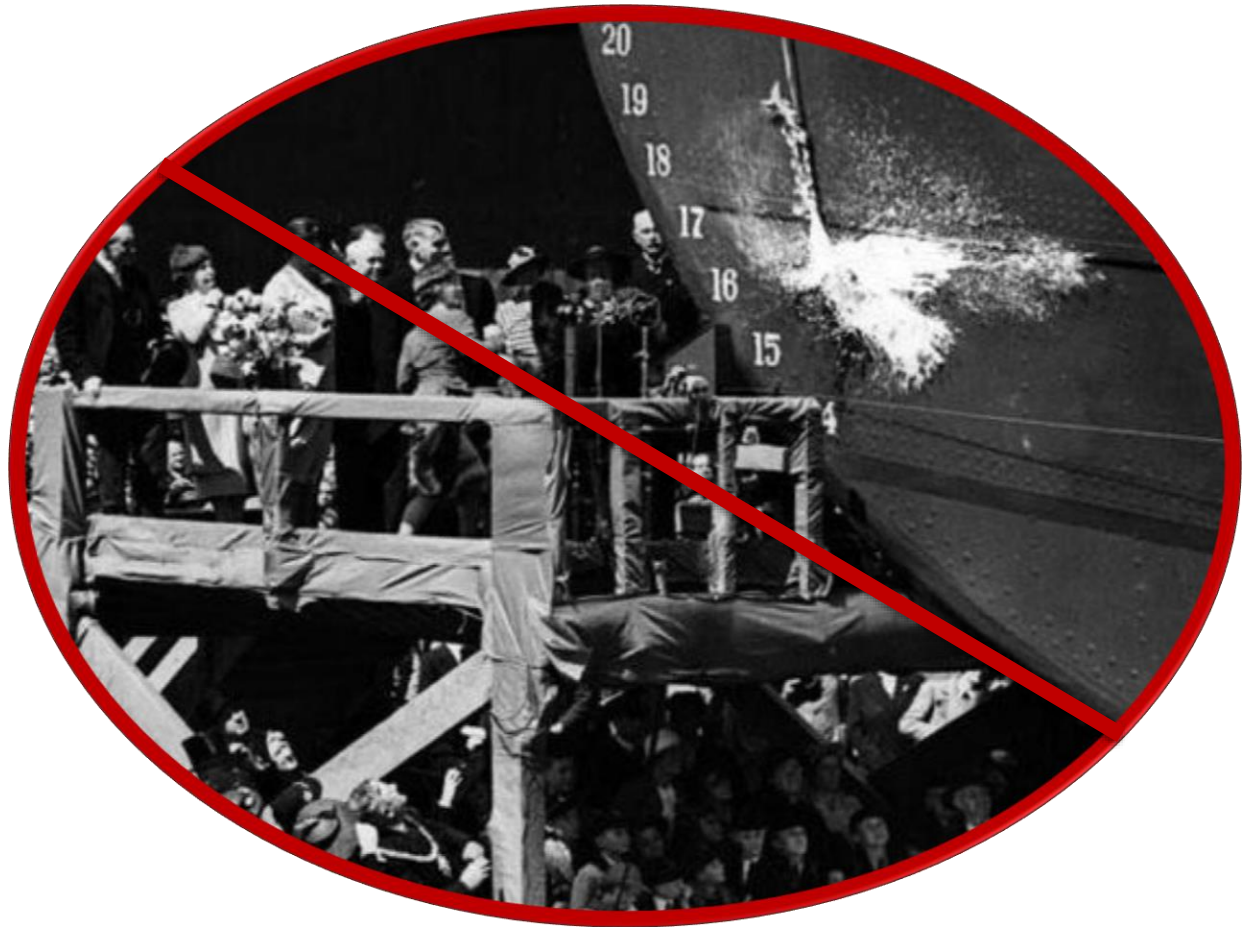
# Learning Objectives

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At the end of the this course, participants will be able to:

- 1 Understand why NFPA 3 was developed and how it became a standard
- 2 Identify who is involved in fire protection and life safety system commissioning
- 3 Recognize what types of projects might include commissioning per NFPA 3
- 4 Understand some of the common misconceptions about NFPA 3







**Commissioning. A systematic process that provides documented confirmation that** building systems function according to the intended design criteria set forth in the project documents and satisfy the owner's operational needs, including compliance with applicable laws, regulations, codes and standards.

# Misconceptions

## Acceptance Testing

Confirm operation of individual system to perform its intended function.

## Commissioning

**Documented confirmation** that building system functions according to intended design criteria and satisfy OPR as well as applicable laws

## Integrated System Testing

Confirm operation, interaction, coordination of multiple individual systems perform their intended function.



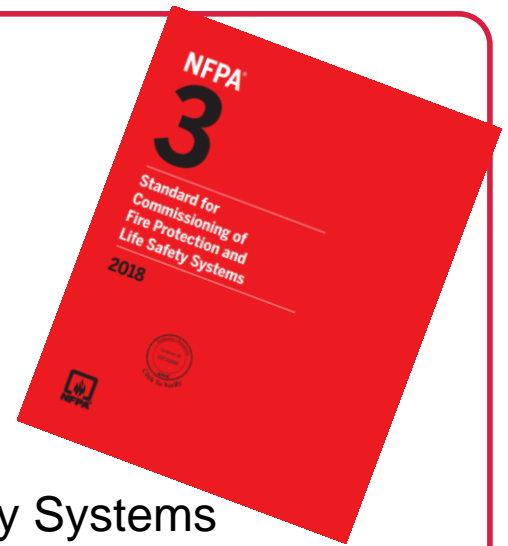
# Where does Commissioning Fit?

- Design Installation Standards - NO
- ITM Standards - NO
- Building Code - NO
- Fire Prevention Code - NO



# NFPA 3: Outline

- 1: Administration
  - 2: Referenced Publications
  - 3: Definitions
  - 4: Qualifications of Commissioning Personnel
  - 5: Commissioning
  - 6: Commissioning of Existing Fire Protection and Life Safety Systems
- Annex A: Explanatory Materials
- Annex B: Qualifications for Fire Protection and Life Safety Systems Teams
- Annex C: Responsibilities for Members of the Fire Protection and Life Safety Systems Commissioning Team
- Annex D: Sample Basis of Design Narrative Report
- Annex E: Sample Commissioning Documentation
- Annex F: Informational References



NIBS requested NFPA establish TC for FP &LS sys.

ROP

Annual 2020 Revision Cycle

Follow Up Meetings

ROP/ROC Meeting

NFPA 3, 1<sup>st</sup> ed.



- TC Established
- Kick Off Meeting

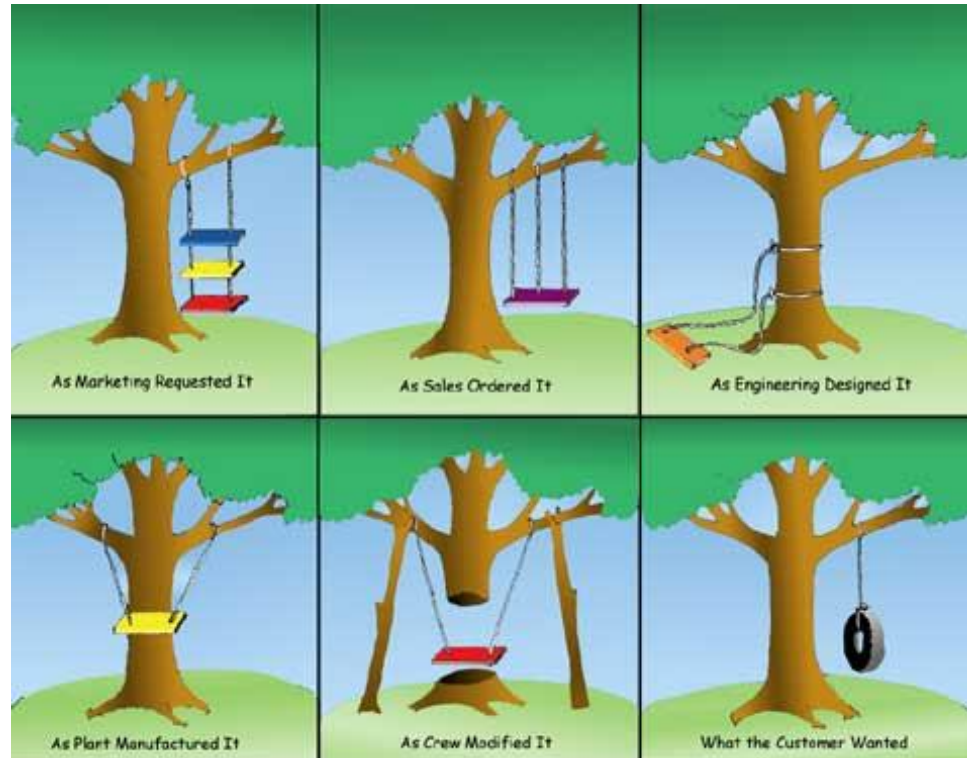
Slipped Cycle

Document Split

NFPA 3, 2<sup>nd</sup> ed.  
NFPA 4, 1<sup>st</sup> ed.

NFPA 3, 3<sup>rd</sup> ed. Becomes a Standard

# NFPA 3: Goals/Purpose



# NFPA 3: FP & LS Commissioning Team

- Fire Commissioning Agent
- Commissioning Authority
- Integrated Testing Agent
- Owner
- Installation Contractor
- Manufacturer's Representative
- Registered Design Professional (RDP)
- Construction Manager/ General
- Contractor
- Insurance Representative
- Owner's Technical Support Personnel
- Facility Manager or Operations Personnel
- Third Party Test Entity
- AHJ



# NFPA 3: FP &LS Commissioning Team

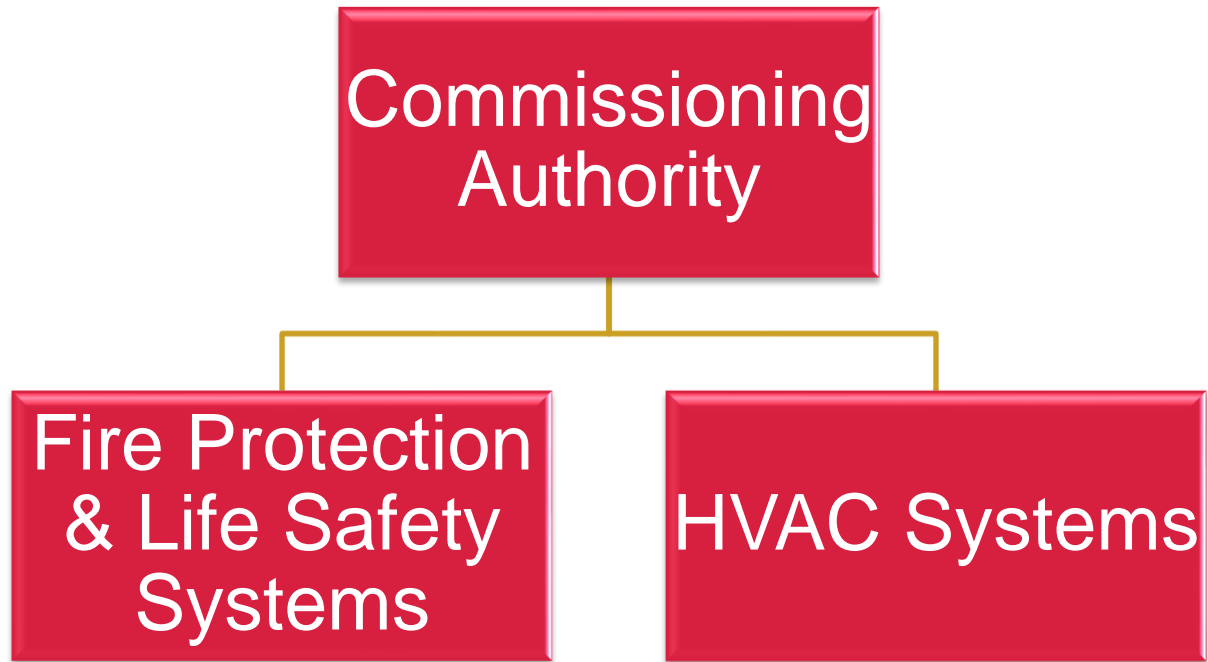
- Fire Commissioning Agent
- Commissioning Authority
- Integrated Testing Agent



# NFPA 3: Fire Commissioning Agent

- A person or entity identified by the owner who leads, plans, schedules, documents, and coordinates the fire protection and life safety commissioning team and who implements the fire protection and life safety commissioning process.
- Advanced understanding of the installation, operation, and maintenance of all fire protection and life safety systems to be installed, with particular emphasis on Integrate System Testing

# NFPA 3: Commissioning Authority



# NFPA 3: Integrated Testing Agent

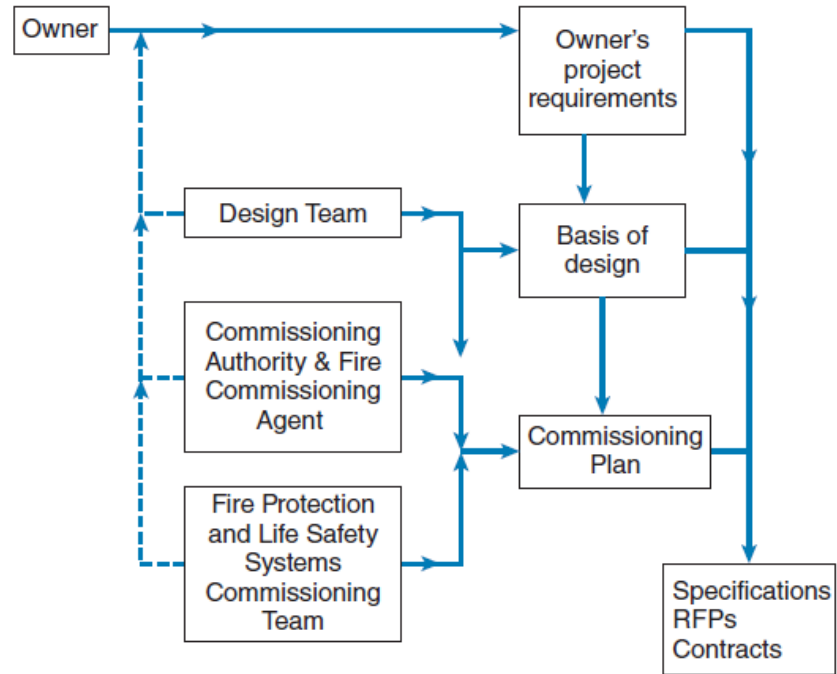
- A person or entity identified by the owner, who, plans, schedules, documents, coordinates, and implements the integrated testing of the fire protection and life safety systems and their associated subsystems
- Should have an understanding of the design, installation, and operation and maintenance of the type of fire protection and life safety systems installed





# Paper

- Basis of Design
- Commissioning Plan
- Construction Documents
- Sequence of Operations

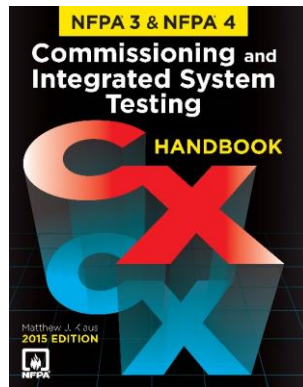


# Process

- Commissioning
- Re-commissioning
- Retro-commissioning

# NFPA 3: Future

- **A2020 Revision Cycle**
- **Public Comment Date: February 27<sup>th</sup> - May 8<sup>th</sup> 2019**



**GET INVOLVED!**

# NFPA 3 and 4: Resources

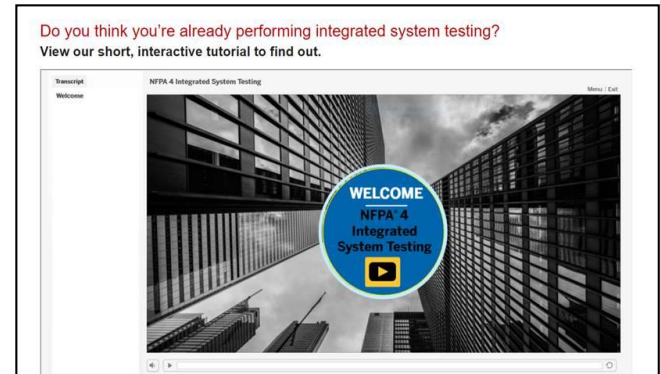
## NFPA 4, Integrated Systems Testing Fundamentals Training

Rosemont, IL  
April 18, 2019

Tarrytown, NY  
May 23, 2019

Visit [nfpa.org/4classroom](https://www.nfpa.org/4classroom) to learn  
more and register.

Free online tutorial and  
other resources at [nfpa.org/4](https://www.nfpa.org/4)



This concludes The American Institute of Architects  
Continuing Education Systems Course

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